NC/QC/W-13/2018-19/SB -BM1 Date: 24-09-2018

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BM Mix Sample.
{Project*: Improvements of Asphalting at Balance Road at Shooting Bungalow Road and other Roads in Mallasandra Ward No. 13 Shettyhalli Sub Division}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

1. Type of Construction: **Bituminous Macadam**.

TEST RESULTS:

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **3.41%**

2.**Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50-75mm thick ,as per Table 500-7 of M.o.R.T.H Specifications-V Revision-2013
26.5	**100.00**	100
19	**96.35**	90-100
13.2	**81.05**	56-88
4.75	**34.80**	16-36
2.36	**16.25**	4-19
0.300	**8.05**	2-10
0.075	**3.95**	0-8

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

NC/QC/W-13/2018-19/SB-BM2 Date: 25-09-2018

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BM Mix Sample.
{Project*: Improvements of Asphalting at Balance Road at Shooting Bungalow Road and other Roads in Mallasandra Ward No. 13 Shettyhalli Sub Division}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

1. Type of Construction: **Bituminous Macadam**.

TEST RESULTS:

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **3.45%**

2.**Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50-75mm thick ,as per Table 500-7 of M.o.R.T.H Specifications-V Revision-2013
26.5	**100.00**	100
19	**98.05**	90-100
13.2	**64.20**	56-88
4.75	**31.45**	16-36
2.36	**13.90**	4-19
0.300	**6.40**	2-10
0.075	**7.35**	0-8

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ಯಶವಂತಪುರ, ಬೆಂಗಳೂರು

KIRAN. R
M.E, (Civil-Engg)

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

NC/QC/W-13/2018-19/SB -BM3 Date: 26-09-2018

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BM Mix Sample.
{Project*: Improvements of Asphalting at Balance Road at Shooting Bungalow Road and other Roads in Mallasandra Ward No. 13 Shettyhalli Sub Division}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

1. Type of Construction: **Bituminous Macadam**.

TEST RESULTS:

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **3.46%**

2.**Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50-75mm thick ,as per Table 500-7 of M.o.R.T.H Specifications-V Revision-2013
26.5	**100.00**	100
19	**97.30**	90-100
13.2	**85.10**	56-88
4.75	**31.75**	16-36
2.36	**15.35**	4-19
0.300	**6.95**	2-10
0.075	**4.60**	0-8

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

NC/QC/W-13/2018-19/SB -BB1 **Date: 24-09-2018**

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade used in Bituminous Concrete.
{Project*: Improvements of Asphalting at Balance Road at Shooting Bungalow Road and other Roads in Mallasandra Ward No. 13 Shettyhalli Sub Division}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**52.25^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**119 cm**	40
3.	Flash point	**241^0 C**	Minimum 220^0 C
4.	Softening point	**50.95^0 C**	Min. 47

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

For Newzen Consultants Bangalore
Proprietor

NC/QC/W-13/2018-19/SB -CB1 **Date: 24-09-2018**

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.
{Project*: Improvements of Asphalting at Balance Road at Shooting Bungalow Road and other Roads in Mallasandra Ward No. 13 Shettyhalli Sub Division}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Technical Manager, KRIDL.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**23.46 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**25.11 %**	Not more than 35.0 %
3.	Water absorption, %	**0.36 %**	Not more than 2.0 %
4.	Specific gravity	**2.61**	-------
5.	Soundness	**6.71 %**	Max. 12 % in Sodium Sulphate

K.R
KRIDL, B
M.E, (CIVIL-E...)

Page No. 1/1,

For Newzen Consultants Bangalore
Proprietor